



Title: METHOD OF PRODUCING PLANTS
HAVING ENHANCED TRANSPIRATION
EFFICIENCY AND PLANTS PRODUCED
THEREFROM

Applicants: Josette Masle et al.

U.S. Serial No.: 10/519,135

Filed: August 15, 2005

(Replacement Sheet)

1/22

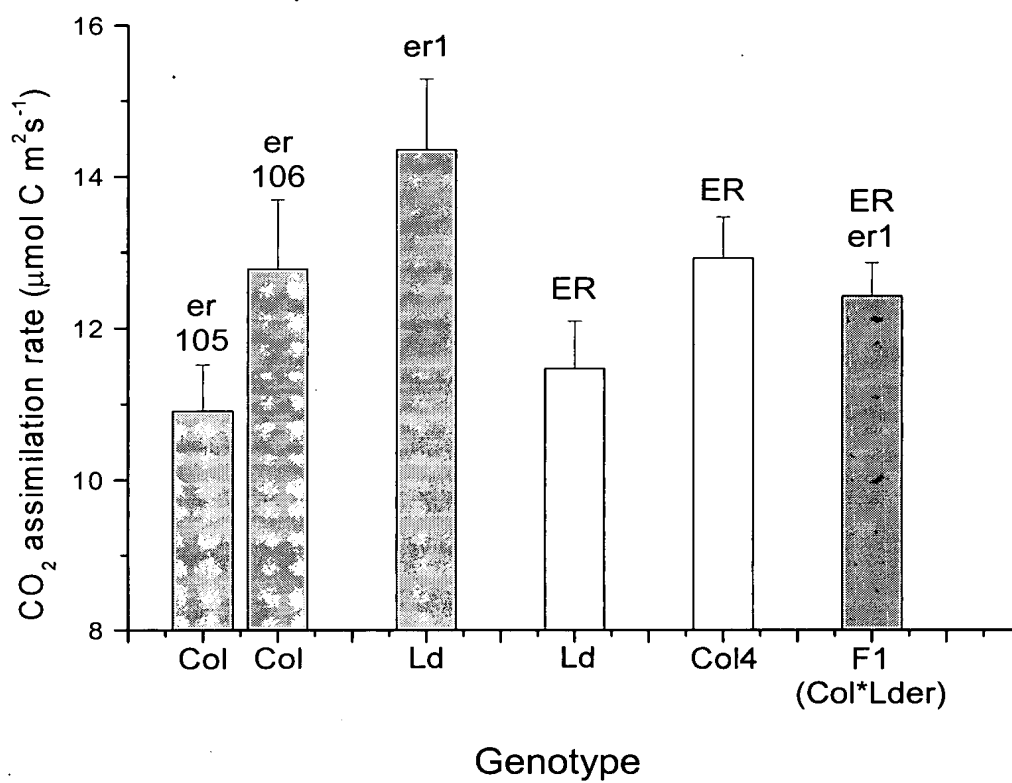


Figure 1a

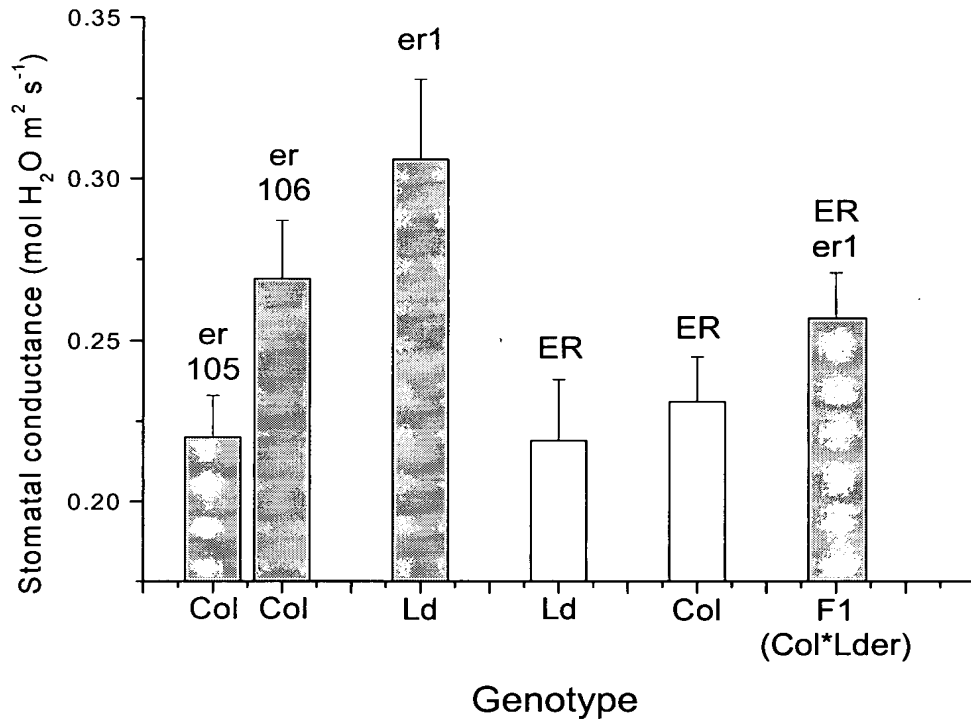


Figure 1b

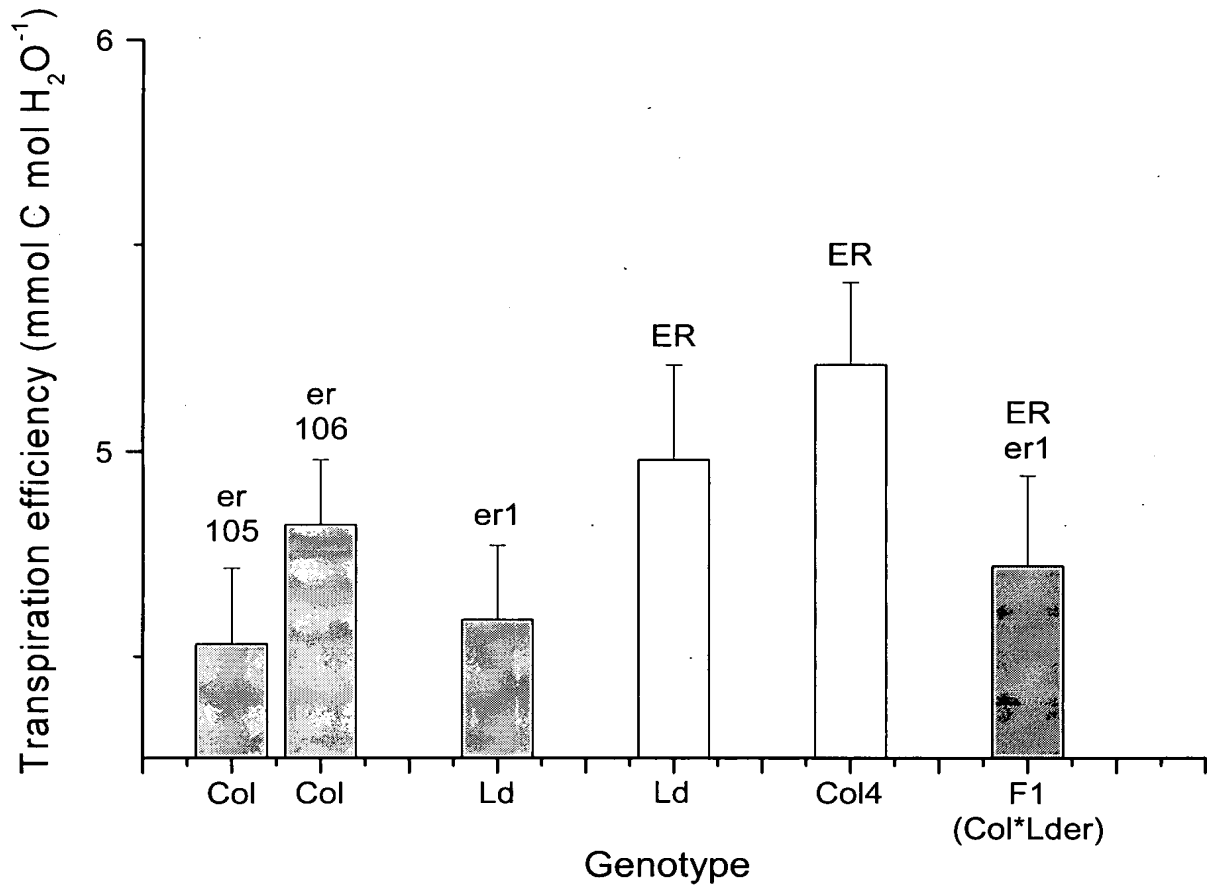


Figure 1c

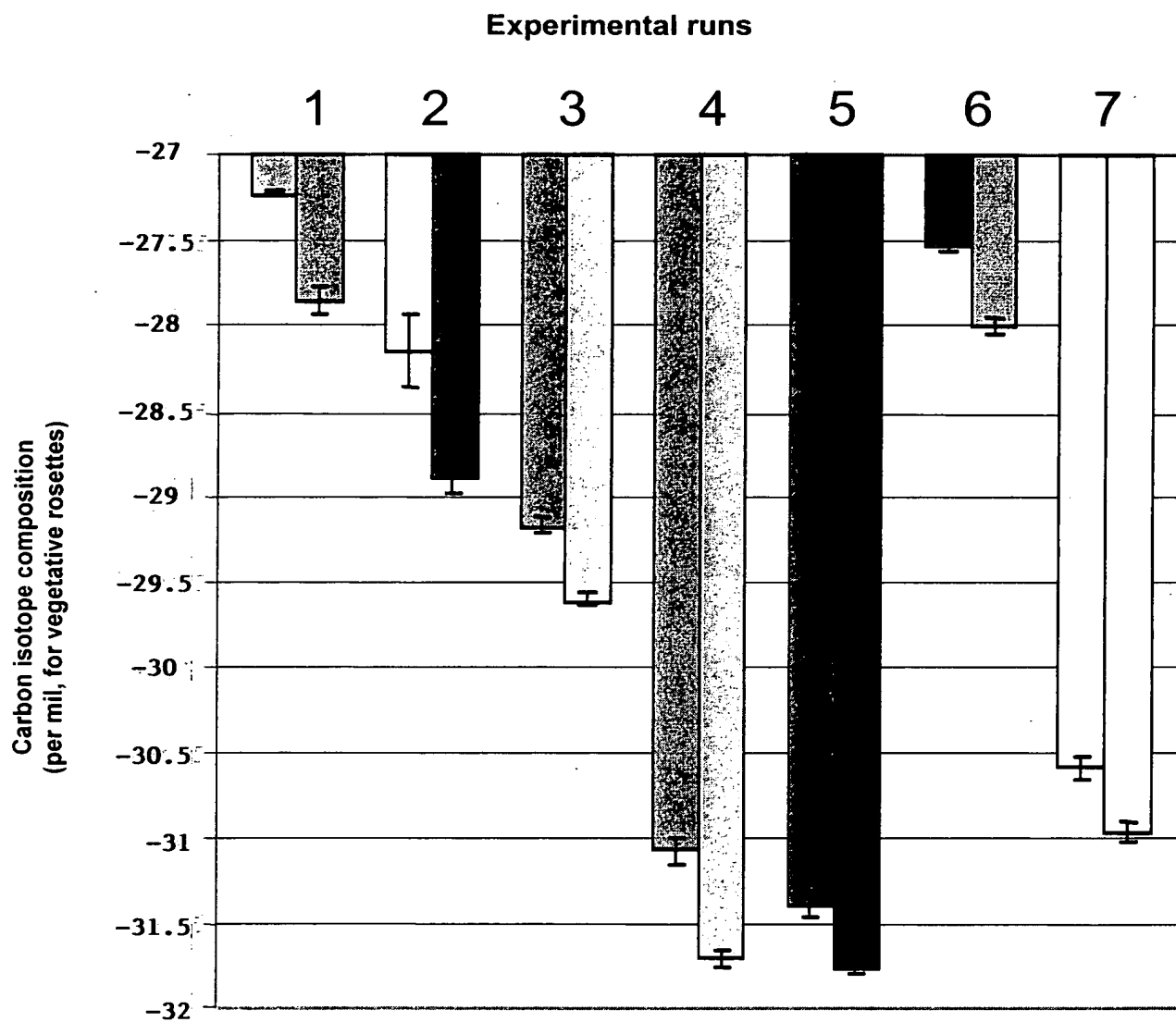


Figure 3

8/22

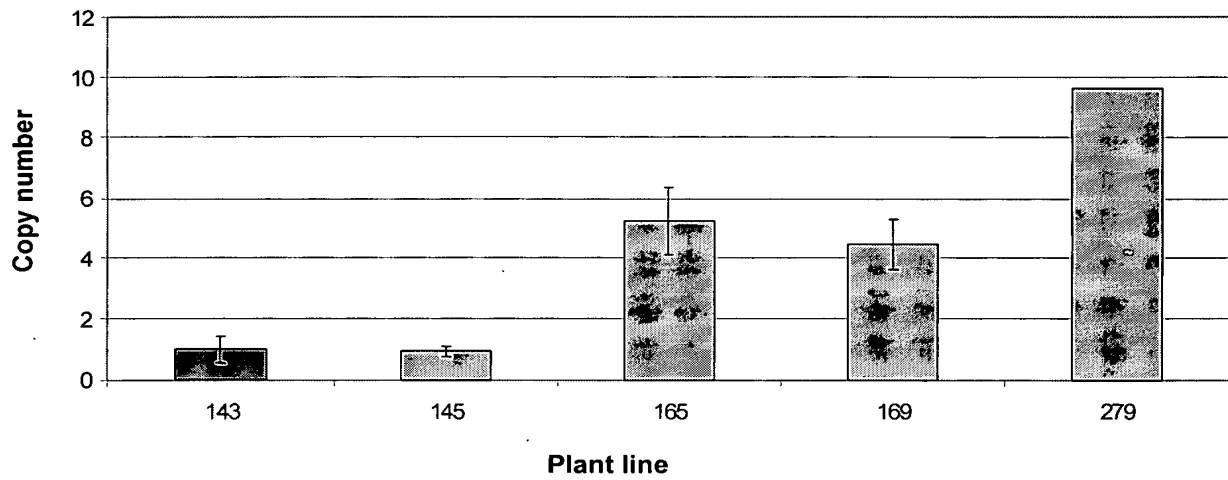


Figure 4a

9/22

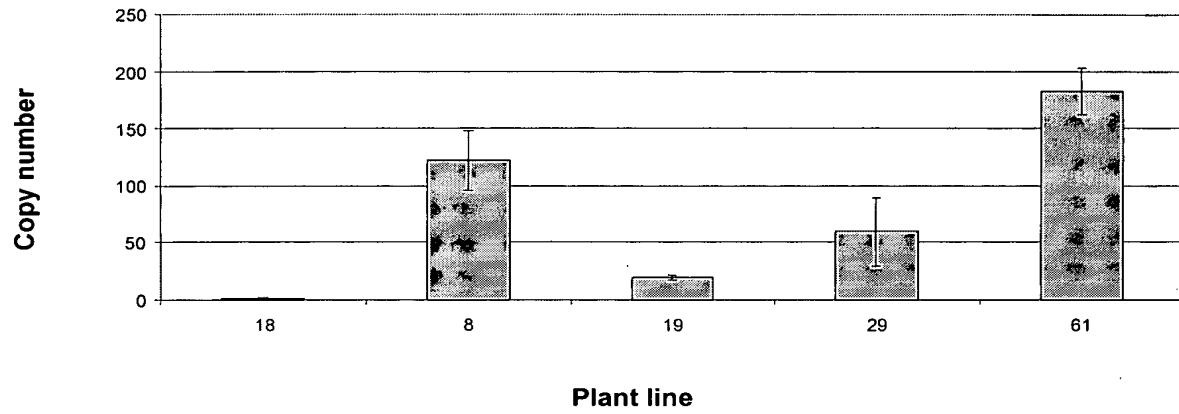


Figure 4b

10/22

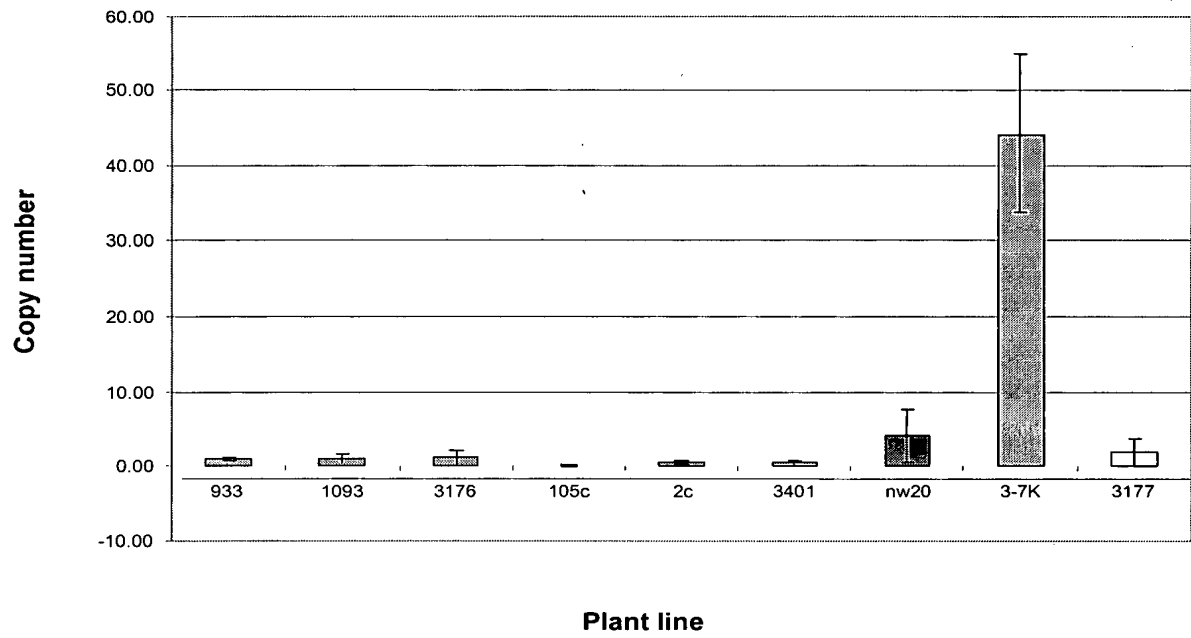


Figure 4c

11/22

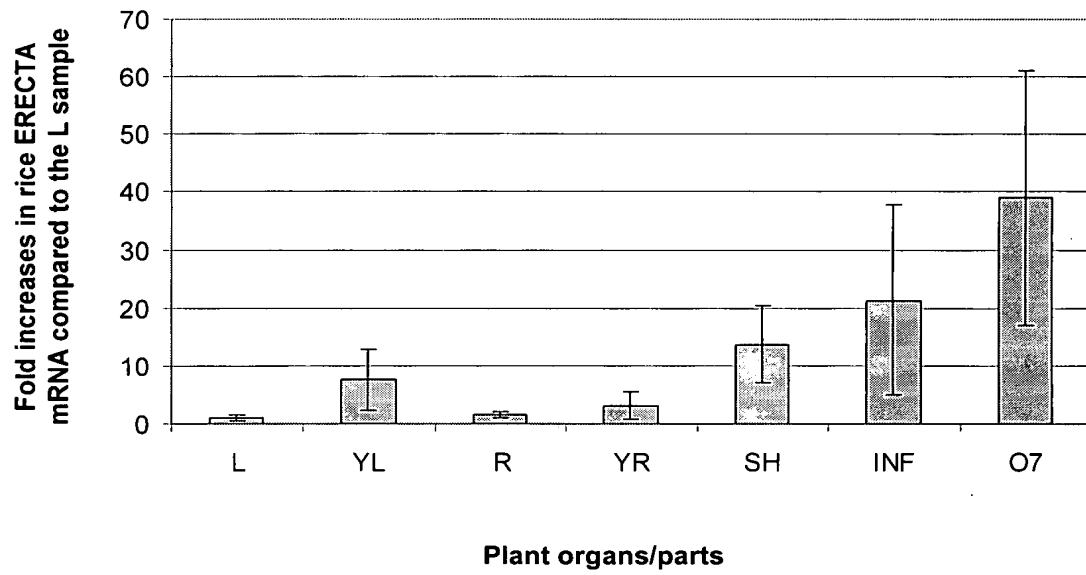


Figure 5a

12/22

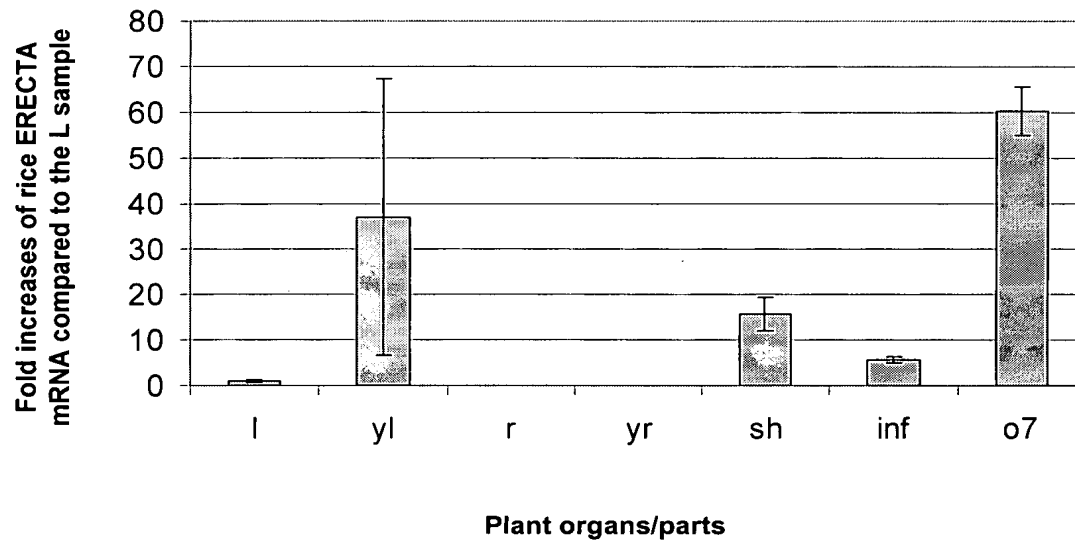


Figure 5b

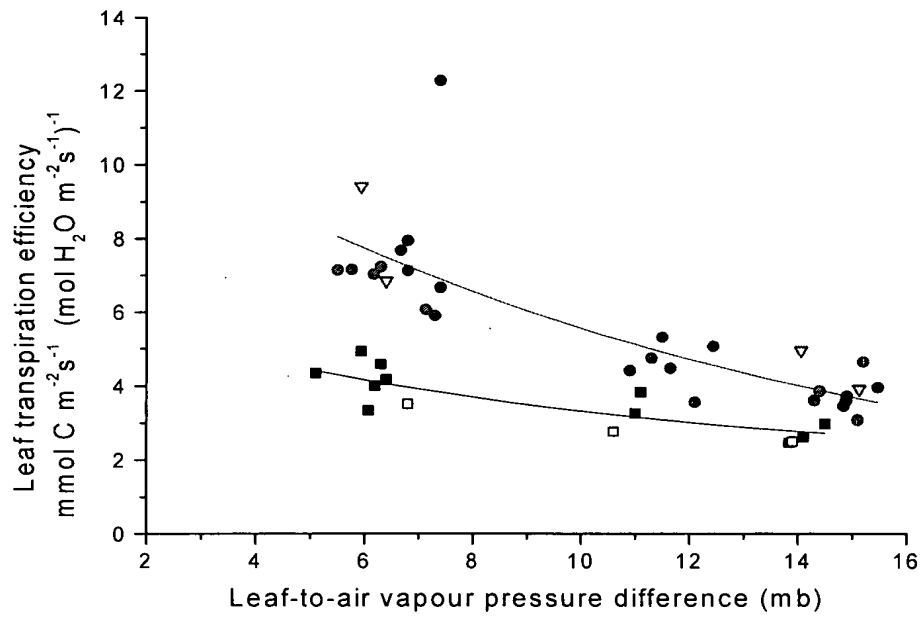


Figure 11

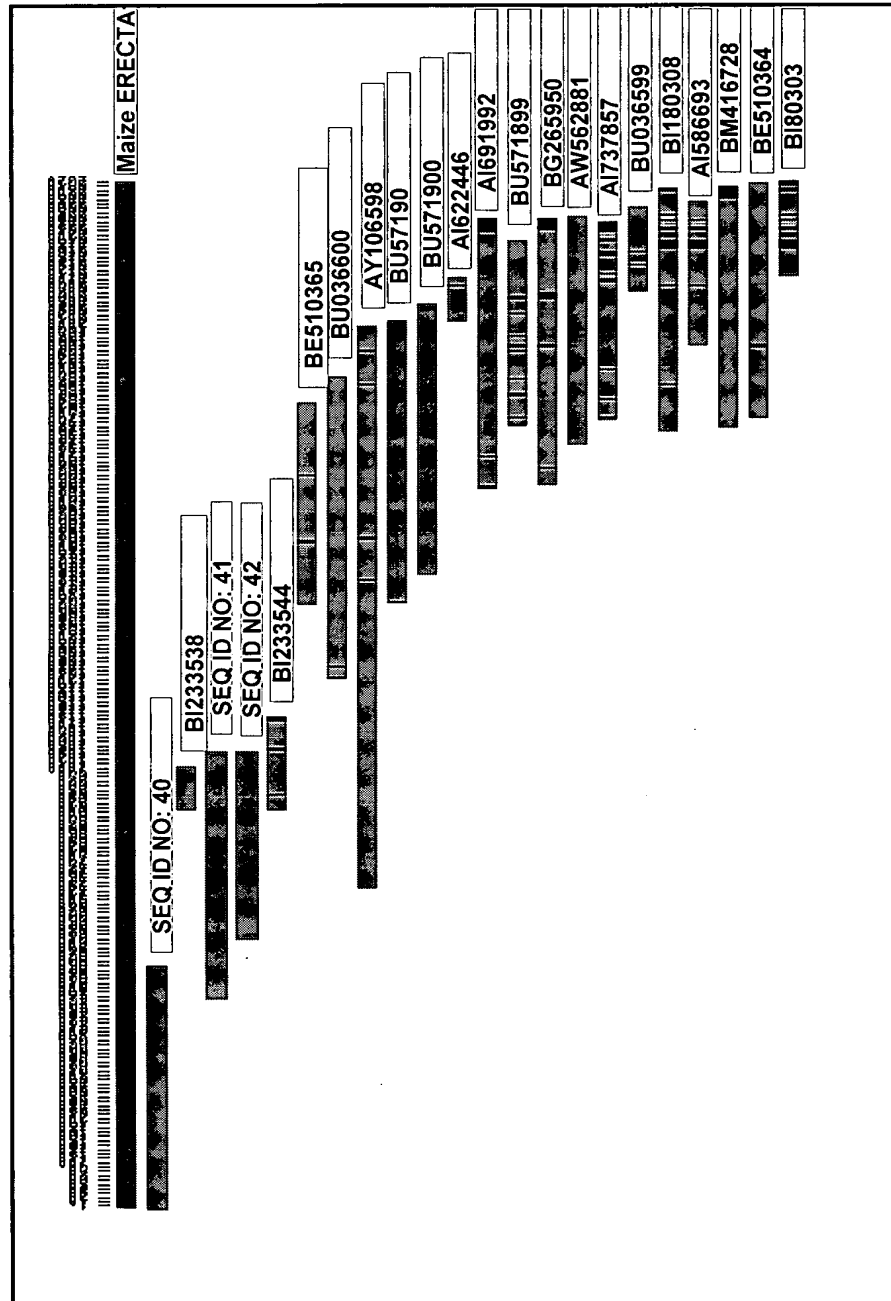


Figure 13

21/22

Erecta_sorghum ---HTTTAARALVALLLVAVAVA-----DGGATLVEIKKSTFNVGNVLYDNAG--
Erecta_maize
Erecta_Arabidopsis MALFRDIVLIGLFLCLSLVATVTS-----ESGATLLEIKKSTFNVGNVLYDNWTTFP
Erecta_rice MAARAFPLAMAVVVVVGVAVRAASGGGGGGGGEGKALMGKAGTGNANALVDMG--
Erecta_wheat

Erecta_sorghum -DDYCSWNGVLCNVTFAVAALNLSGLALEGEISPAVG3LKSLSIDLKSNGLSGQIPDE
Erecta_maize
Erecta_Arabidopsis SSDYCVWGVSCENVTFVAVAINLSIDMLDGEISPAIDGLKSLSIDLGRGLSGQIPDE
Erecta_rice GADHAWGVTCNDAFVAVLAINLSMLLGGEISPAIGELKLNQFVDLKGRKLTGQIPDE
Erecta_wheat

Erecta_sorghum IGDCSSLATLDFEFNNLDGDIFFSISKLNHLENLILKNNQLIGAIPTSLSQLENKILDL
Erecta_maize
Erecta_Arabidopsis IGDCSSLATLDFEFNNLDGDIFFSISKLNHLENLILKNNQLIGAIPTSLSQLENKILDL
Erecta_rice IGDCISLKLTLDSGNLLYGDIFFSISKLNHLENLILKNNQLIGAIPTSLSQLENKILDL
Erecta_wheat

Erecta_sorghum AQNKLTKGIFRLIYWNEVLQYL-----DVKNISLTGVIPDT
Erecta_maize
Erecta_Arabidopsis AQNKLTKGIFRLIYWNEVLQYLGLAGNHLVGNISFDLCQLTGLWYEDVKNISLTGVIPDT
Erecta_rice AQNKLTKGIFRLIYWNEVLQYLGLAGNHLVGNISFDLCQLTGLWYEDVKNISLTGVIPDT
Erecta_wheat

Erecta_sorghum IGMCTSFQVLDLSYNRF TGPFPNIGTQVATLSLQNNKTGPISVIGLHQALAVLDLS
Erecta_maize
Erecta_Arabidopsis IGMCTSFQVLDLSYNRF TGPFPNIGTQVATLSLQNNKTGPISVIGLHQALAVLDLS
Erecta_rice IGMCTSFQVLDLSYNRF TGPFPNIGTQVATLSLQNNKTGPISVIGLHQALAVLDLS
Erecta_wheat

Erecta_sorghum YNQLSGPIPSILGNLTYTEKLYIQGNKLTGSIPELGNMSTLHYLELNDNQLTGSIPPEL
Erecta_maize
Erecta_Arabidopsis YNQLSGPIPSILGNLTYTEKLYIQGNKLTGSIPELGNMSTLHYLELNDNQLTGSIPPEL
Erecta_rice YNQLSGPIPSILGNLTYTEKLYIQGNKLTGSIPELGNMSTLHYLELNDNQLTGSIPPEL
Erecta_wheat

Erecta_sorghum GRLTGLFDLNLANNHLEGPIPNLSNCCVNLNSFNAYGNKLTGSIPELGNMSTLHYLELNDNQLTGSIPPEL
Erecta_maize
Erecta_Arabidopsis GRLTGLFDLNLANNHLEGPIPNLSNCCVNLNSFNAYGNKLTGSIPELGNMSTLHYLELNDNQLTGSIPPEL
Erecta_rice GRLTGLFDLNLANNHLEGPIPNLSNCCVNLNSFNAYGNKLTGSIPELGNMSTLHYLELNDNQLTGSIPPEL
Erecta_wheat

Erecta_sorghum SNFISGSIPIELSRINLDTLDSNCRGTGPISPSIGLHLNLSNGLVIGETIPAEF
Erecta_maize
Erecta_Arabidopsis SNFISGSIPIELSRINLDTLDSNCRGTGPISPSIGLHLNLSNGLVIGETIPAEF
Erecta_rice SNFISGSIPIELSRINLDTLDSNCRGTGPISPSIGLHLNLSNGLVIGETIPAEF
Erecta_wheat

Erecta_sorghum GNLSVMEIDLSTNHLGGILPQELHMLQMLL
Erecta_maize
Erecta_Arabidopsis GNLSVMEIDLSTNHLGGILPQELHMLQMLL
Erecta_rice GNLSVMEIDLSTNHLGGILPQELHMLQMLL
Erecta_wheat

Erecta_sorghum NVSYNNLAGVVPADNFTATSPD-----SFLGNGLCGYWLSSCRSTG
Erecta_maize
Erecta_Arabidopsis NVSYNNLAGVVPADNFTATSPD-----SFLGNGLCGYWLSSCRSTG
Erecta_rice NVSYNNLAGVVPADNFTATSPD-----SFLGNGLCGYWLSSCRSTG
Erecta_wheat

Erecta_sorghum HDEKPPISKAAIIGVAVGSLVILMLVAVCRPHRPFAPKDVTSKPVNAPPKVILH
Erecta_maize
Erecta_Arabidopsis HDEKPPISKAAIIGVAVGSLVILMLVAVCRPHRPFAPKDVTSKPVNAPPKVILH
Erecta_rice HDEKPPISKAAIIGVAVGSLVILMLVAVCRPHRPFAPKDVTSKPVNAPPKVILH
Erecta_wheat

Erecta_sorghum NDAHVYDDIDRNTENLSEKVIIGVASSVYKCVLAKSKPAIKALYAHYQSLKEFEF
Erecta_maize
Erecta_Arabidopsis NDAHVYDDIDRNTENLSEKVIIGVASSVYKCVLAKSKPAIKALYAHYQSLKEFEF
Erecta_rice NDAHVYDDIDRNTENLSEKVIIGVASSVYKCVLAKSKPAIKALYAHYQSLKEFEF
Erecta_wheat

Erecta_sorghum ELETVGSIHNRNLVSLQGYSLSPVGNLLFYDMEGSLMDVLEHGGSSKKKLDWETRLAI
Erecta_maize
Erecta_Arabidopsis ELETVGSIHNRNLVSLQGYSLSPVGNLLFYDMEGSLMDVLEHGGSSKKKLDWETRLAI
Erecta_rice ELETVGSIHNRNLVSLQGYSLSPVGNLLFYDMEGSLMDVLEHGGSSKKKLDWETRLAI
Erecta_wheat

Erecta_sorghum ALGAAQGLAYLHDCSPRIHROVKSNNILDKDYEAHLTDFGIKSLCVSKHTSTYVH
Erecta_maize
Erecta_Arabidopsis ALGAAQGLAYLHDCSPRIHROVKSNNILDKDYEAHLTDFGIKSLCVSKHTSTYVH
Erecta_rice ALGAAQGLAYLHDCSPRIHROVKSNNILDKDYEAHLTDFGIKSLCVSKHTSTYVH
Erecta_wheat

Erecta_sorghum GTIGYIDFEVARTSRINEKSDVYS-----LWHSAG-----AADWASGQRLSKTASHEVMD
Erecta_maize
Erecta_Arabidopsis GTIGYIDFEVARTSRINEKSDVYS-----LWHSAG-----AADWASGQRLSKTASHEVMD
Erecta_rice GTIGYIDFEVARTSRINEKSDVYS-----LWHSAG-----AADWASGQRLSKTASHEVMD
Erecta_wheat

Erecta_sorghum TVDEPDIGDTCDLGKVLQFQALLCTKQPEDRPTGHEVAVLDCVWNPDPPEKPE
Erecta_maize
Erecta_Arabidopsis TVDEPDIGDTCDLGKVLQFQALLCTKQPEDRPTGHEVAVLDCVWNPDPPEKPE
Erecta_rice TVDEPDIGDTCDLGKVLQFQALLCTKQPEDRPTGHEVAVLDCVWNPDPPEKPE
Erecta_wheat

Erecta_sorghum ---SAYQLQPSFAVPSYIRETVSLAGTGALSCANSSTSTSDALELATGEALPONS
Erecta_maize
Erecta_Arabidopsis ---SAYQLQPSFAVPSYIRETVSLAGTGALSCANSSTSTSDALELATGEALPONS
Erecta_rice ---SAYQLQPSFAVPSYIRETVSLAGTGALSCANSSTSTSDALELATGEALPONS
Erecta_wheat

Figure 14

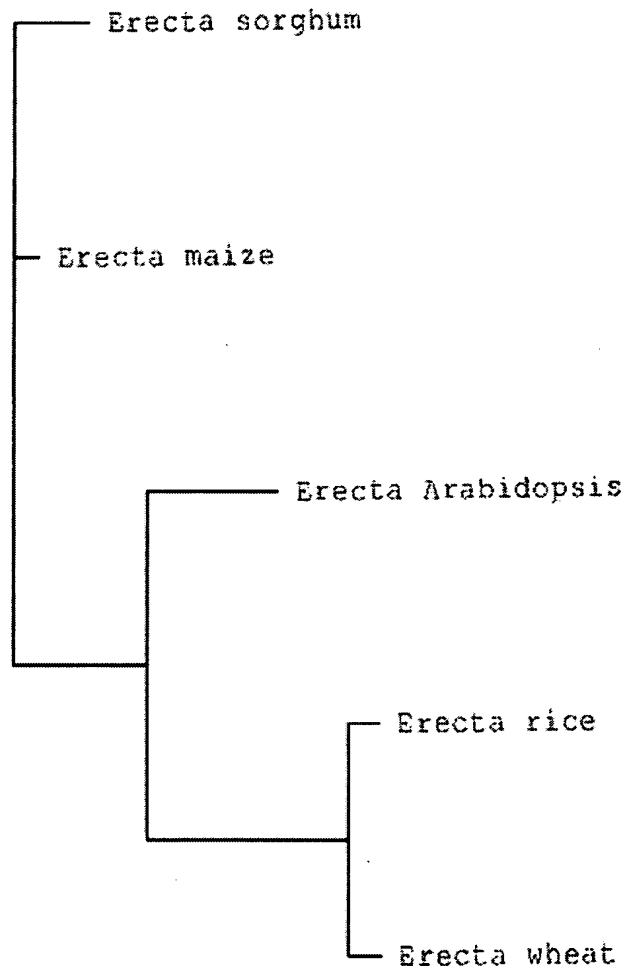


FIGURE 15